Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An electronic signal processing circuit, comprising:

a plurality of chained stream processing circuits, each having a stream input and a stream output, for inputting and outputting an input and output stream of successive sample values;

linking multiplexing circuits, each linking a respective pair of stream processing circuits, each linking multiplexing circuit being individually switchable to a normal mode and to a replacement mode, the linking multiplexing circuit, when in the normal mode, providing a continuous connection for passing a first stream of samples values between the stream processing circuits in the respective pair;

a shareable communication structure coupled to the linking multiplexing circuits, each linking multiplexing circuit, when in the replacement mode, providing a continuous connection for supplying successive sample values from a second stream from the communication structure to a receiving one of the stream processing circuits in the respective pair of the stream processing circuits; and

a control circuit coupled to the linking multiplexing circuits, arranged to keep a selectable one of the multiplexing circuits in the replacement mode so that the selectable one of the linking multiplexing circuits passes a stream of successive sample from the second stream to the receiving one of the processing circuits in the respective pair of the stream processing circuits, while keeping at least part of the other linking multiplexing circuits in the normal modes.

the electronic signal processing circuit comprising interface circuits, each coupled between the communication structure and the stream output of a respective one of the stream processing circuits, each interface circuit being individually switchable to an output mode under control of the control circuit (IS), each interface circuit, when in the output mode, passing successive samples of the second stream or a further stream from the stream output of a respective one of the stream processing circuits to the communication structure,

the electronic signal processing circuit comprising a further plurality of chained stream processing circuits, further linking multiplexing circuits, a further shareable communication structure, mutually coupled as claimed for the first mentioned plurality of chained stream processing circuits, linking multiplexing circuits, and shareable communication structure, the electronic signal processing circuit furthermore comprising a router circuit having a first, second and third input coupled to an output of the shareable communication structure, an output of the further shareable communication structure, and a first external connection terminal of the electronic signal processing circuit respectively, the router circuit having a first, second and third output, coupled to an input of the shareable communication structure, an input of the further shareable communication structure and a second external connection terminal of the electronic signal processing circuit respectively, the router circuit being arranged to establish selectable connection patterns between its inputs and outputs under control of the control circuit.

2. (canceled)

3. (currently amended) An electronic signal processing circuit according to claim-21, wherein the communication structure comprises a plurality of chained multiplexing circuits, individually controllable by the control circuit, each chained multiplexing circuit corresponding to a respective corresponding one of the stream processing circuits, each having a first input, a second input and an output, the first input being coupled to the stream output of the corresponding one of the stream processing circuits, the second input being coupled to the output of the chained multiplexing circuit that corresponds to a preceding one of the stream processing circuit whose stream output is linked to the corresponding one of the stream processing circuit by one of the multiplexing circuits.

claim 3, wherein each linking multiplexing circuit has a first input and a second input, the first input coupled to the stream output of a linked one of the stream processing circuits to receive sample values from the first stream, the second input receiving the second stream which is supplied to the second input of the chained multiplexing circuits that corresponds to the linked one of the stream processing circuits.

5. (previously presented) An electronic signal processing circuit according to claim 3, wherein each linking multiplexing circuit has a first input and a second input, the first input coupled to the stream output of a linked one of the stream processing circuits, to receive sample values from the first stream, the second input receiving the second stream which is supplied to the second input of the chained multiplexing circuit that corresponds to the preceding one of the stream processing circuits whose stream output is linked to the input of the linked one of the stream processing circuits.

6. (canceled)

7. (currently amended) An electronic signal processing circuit according to claim-6_1, wherein the plurality of stream processing circuits is a transmission pre-processing circuit, the stream processing circuits being arranged to perform respective chained functions in the encoding of data in a transmission signal, the plurality of further stream processing circuits being a reception postprocessing circuit, the further stream processing circuits being arranged to perform respective inverse functions of the chained functions to decode data from a received signal.

8. (original) An electronic signal processing circuit according to claim 1, comprised on an integrated circuit chip.

9. (canceled)